

DESCRIPTIONInhibitors of Serine Protease Activity of Matriptase or
MTSP1Cross Reference to Related Applications

5 This application is a continuation-in-part of PCT
Application No. PCT/US01/28137 filed September 7, 2001 which
designates the United States of America, which is a
continuation-in-part of United States Serial No. 09,675,986,
10 *now U.S. Patent No. 6,797,504* filed September 8, 2000, the disclosures of which are
incorporated herein by reference.

HP
6/24/06

Field Of The Invention

15 The present invention is directed to methods of
reducing tumor progression and/or metastasis. Matriptase
and MTSP1 are serine proteases reported to be expressed in
high levels in certain cancer cell lines.

20 According to one aspect, the present invention provides
compounds which bind to the serine protease domain and are
active as selective inhibitors of the serine protease
activity of matriptase or MTSP1. These inhibitors can be
used to inhibit the serine protease activity of matriptase
or MTSP1 and thereby reduce harmful effects of its over-
expression. Another aspect of the present invention is
directed to the use of compounds that bind to the serine
protease domain and selectively inhibit the serine protease
25 activity of matriptase or MTSP1; such compounds may be used
in the prevention and treatment of cancerous conditions and
which decrease the growth of cancerous tumors and retard
metastasis.